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High performance integrated processor architecture including a sub-bus control unit for generating ...

DD Gephardt, DS Mudgett, JR MacDonald - US Patent 5,557,757, 1996 - Google Patents

... **processor** includes a CPU core, a local bus coupled to the CPU core, and a ... The integrated processor further includes a sub-bus bus **control unit** coupled to ...

Cited by 28 - Related articles - Web Search - All 2 versions

**A 1 V heterogeneous reconfigurable processor IC for baseband/wireless applications**

H Zhang, V Prabhu, V George, M Wan, M Benes, A ... - 2000 IEEE International Solid-State Circuits Conference, ..., 2000 - ieeexplore.ieee.org

... The **Maia processor** (Figure 4.1.3) combines an ARM8 core with 21 ... and an embedded low-energy FPGA [3]. Through an interface **control unit**, ARM8 config ...

Cited by 65 - Related articles - Web Search - All 2 versions

**[PDF] ► Designing the Low-Power M+ CORE TM Architecture**

J Scott, LH Lee, J Arends, B Moyer - Power Driven Microarchitecture Workshop, 1998 - Citeseer

... Indicate that the code density of the M-CORE microRISC engine is ... Fixed-length instructions also serve to reduce the CPU's **control unit** complexity, since ...

Cited by 62 - Related articles - View as HTML - Web Search - All 12 versions

**Apparatus and method for guaranteed data store in redundant controllers of a process control system**

PF McLaughlin, PH Mody - US Patent 5,088,021, 1992 - Google Patents

... 3. The **processing unit** of claim 2 wherein said pro-type 68824. The receiver transmitter unit 331 can be a cesser unit is a **process control unit** and said ...

Cited by 18 - Related articles - Web Search - All 2 versions

**Central processing unit employing microprogrammable control for use in a data processing system**

RH Gruner - US Patent 3,990,052, 1976 - Google Patents

... 2, 1976 [54] CENTRAL PROCESSING UNIT EMPLOYING MICROPROGRAMMABLE CONTROL FOR USE IN A ... Jacob Frank; Joel Wall [57] ABSTRACT A microprogrammed **processor** having a ...

Cited by 24 - Related articles - Web Search - All 4 versions

**Configuration and control unit for a heterogeneous multi-system**

JL Fox, EE Marquardt - US Patent 4,075,693, 1978 - Google Patents

... Thus, the invention is able to distributed configuration control registers with dupli-cross-couple any I/O **control unit** to any **processor** to cited ...

Cited by 60 - Related articles - Web Search - All 6 versions

**STARAN parallel processor system hardware**

KE Batcher - Proceedings of the May 6-10, 1974, national computer ..., 1974 - portal.acm.org

... The **PIO control unit** controls the PIO flip network and the ... STARAN Parallel Processor System Hardware 499 ... control memory also has a 16K-word **core** memory with a ...

Cited by 119 - Related articles - Web Search

... system providing interfaces to central **processing unit** and modular **processor**-controllers for an ...

DA Millers... - US Patent 4,106,092, 1978 - Google Patents

... INTERFACES TO CENTRAL PROCESSING UNIT AND MODULAR PROCESSOR-CONTROLLERS FOR AN INPUT-OUTPUT SUBSYSTEM [75] Inventor: Donald Alexander Millers, II., San Clemente ...

Cited by 31 - Related articles - Web Search - All 3 versions

The design and use of simplepower: a cycle-accurate energy estimation tool- ► psu.edu (PDF)

W Ye, N Vijaykrishnan, M Kandemir, MJ Irwin - Proceedings of the 37th conference on Design automation, 2000 - portal.acm.org

... does not capture the energy consumed by the control unit of the processor and the ...

2. The major components of SimplePower are: SimplePower core , RTL power ...

Cited by 303 - Related articles - Web Search - All 26 versions

Secure cryptographic processor arrangement

JT Marino Jr, RS Core - US Patent 4,987,595, 1991 - Google Patents

... Jr., Fountain Hills; Ronald S. Core, Glendale, both ... 8. A secure processor arrangement as claimed ... subsystem further including bus control unit means providing ...

Cited by 12 - Related articles - Web Search - All 5 versions

Process control system with improved system security features

DK Richer - US Patent 4,351,023, 1982 - Google Patents

... the health of the on-control unit before deciding ... of providing direct digital control of the process. ... may include a central processing unit (CPU), memory, and ...

Cited by 34 - Related articles - Web Search - All 2 versions

... efficiently executing a large repertoire of instructions for a high performance data processing unit

JE Wilhite - US Patent 4,179,736, 1979 - Google Patents

... COMPUTER CONTROL UNIT CAPABLE OF EFFICIENTLY EXECUTING A LARGE REPERTOIRE OF INSTRUCTIONS FOR A HIGH PERFORMANCE DATA PROCESSING UNIT [75] Inventor: John E ...

Cited by 18 - Related articles - Web Search - All 3 versions

A video DSP with a macroblock-level-pipeline and a SIMD typevector-pipeline architecture for MPEG2 ...

M Toyokura, H Kodama, E Miyagoshi, K Okamoto, M ... - IEEE Journal of Solid-State Circuits, 1994 - ieeexplore.ieee.org

... scheme consisting of a macroblock- level (MB: the basic processing unit in MPEG2 ...

The VLCNLD processor consists of one pro- grammable control unit (VPCU) and ...

Cited by 44 - Related articles - Web Search - All 5 versions

Intelligent input-output interface control unit for input-output subsystem

DJ Cook, DA Millers... - US Patent 4,162,520, 1979 - Google Patents

... [57] ABSTRACT An Input-Output Interface Data-Transfer Control Unit, designated as a Line Control Processor, which provides the execution of instructions in ...

Cited by 40 - Related articles - Web Search - All 3 versions

Process control for electrostagraphic machine

BH Mills - US Patent 4,779,106, 1988 - Google Patents

... 2, LCU 52 consists of tempo- rary data storage memory 54, a central processing unit (CPU) 56, a timing and cycle control unit 58, a stored program control 60 ...

Cited by 21 - Related articles - Web Search - All 7 versions

Data packet switch using a primary processing unit to designate one of a plurality of data

stream ...

JN Chiappa - US Patent 5,249,292, 1993 - Google Patents

... specialized hardware 10 cannot **process** are passed to a software controlled primary **processing unit** 11, includ- ing a central **processing unit**, CPU, 12, running ...

Cited by 24 - Related articles - Web Search - All 2 versions

**Universal process control device and method for developing a process control loop program**

DJ Jones, WA Edblad, JS Pringle, DM Oravetz, JR ... - US Patent 4,663,704, 1987 - Google Patents

... a general description of the distributed **processing unit** or drop ... ity of a distributed **processing control unit** or drop ... and continu- 25 ous **process** control and ...

Cited by 61 - Related articles - Web Search - All 2 versions

**CPU clock control unit**

PM Bland, RT Jackson, J Joshi, J Kardach - US Patent 5,546,568, 1996 - Google Patents

... 5,546,568 CPU CLOCK CONTROL UNIT BACKGROUND OF ... relates to a power management architecture scheme for a central **processing unit** ("CPU") implemented within ...

Cited by 21 - Related articles - Web Search - All 2 versions

**Multi-processor system with programmable memory-access priority control**

S Suzuki, S Eguchi - US Patent 4,400,771, 1983 - Google Patents

... the hardware in the 45 memory **control unit** 23 may ... 2. The multi-**processor** system includes a plurality ... processors are the first central **processing unit** (CPU#1) 51 ...

Cited by 36 - Related articles - Web Search - All 2 versions

**(k)-Instructions-at-a-time pipelined processor for parallel execution of inherently sequential ...**

HT Hao, H Ling, HE Sachar, J Weiss, YJ Yamour - US Patent 4,594,655, 1986 - Google Patents

... INSTRUCTIONS-AT-A-TIME PIPELINED PROCESSOR FOR PARALLEL ... AND INTERLOCK OET.I

RESOLUTION

**CONTROL UNIT** Dato Flow ... Irwin, "A Pipelined Processing Unit for On-Line ...

Cited by 71 - Related articles - Web Search - All 3 versions

Key authors: **J Rabaey - H Zhang - D Kuck - J Scott - K Batcher**

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processor "control unit" "processing"

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Rugged modular portable computer including modules hinged along an edge  
 SW Smith - US Patent 5,430,607, 1995 - Google Patents

... The inner filter is preferably made from a 3M (S ... The gasket 608 also provides EMI may be affixed to a ... 4 and **shielding** as well as moisture sealing and is soft ...

Cited by 29 - Related articles - Web Search - All 2 versions

**Height reducible EMI shielded electronic enclosure**

DP Bell, ED Burke, PE Case, DE Johnston, RL McCord ... - US Patent 6,111,192, 2000 - Google Patents  
 ... frame covered by an appropriate inner and outer ... by an externally mounted environmental **control unit** (ECU) 126 ... claim 2 wherein the gasket provides **EMI shielding**. ...

Cited by 4 - Related articles - Web Search - All 2 versions

**Composite Unit Accelerated Life Test of the High Gain Array**

SL Arnett, AV Bray, SC Liberty - 1993 - Storming Media  
 ... 10.3.2 **EMI Shield** Evaluation ... potted and connected to a stave cable consisting of 30 bundled conductors, an outer braided binder, and an **inner** strength member ...

Web Search

**Data current coupler and methods of making and assembling same**

WJ Rudy Jr, HR Shafter - US Patent 4,904,879, 1990 - Google Patents  
 ... 194,196 to receive Cover 220 includes pivot pins 28 (in phantom) and also inner legs 186 ... For best EMI/RFI protection, all seams between **shield** member 200 ...  
 Cited by 9 - Related articles - Web Search - All 6 versions

**The death of smart sensors and effectors for future combat aircraft**

RA Edwards, B Gleave - Microprocessors and Microsystems, 1997 - Elsevier  
 ... the environment and rough handling, as well as **EMI shielding**. ... The core network is likely to be based ... allows all control processes (including **inner** loop closure ...  
Web Search - All 3 versions

**Antenna tuning control circuit**

ND Terk, JA Lofgren, WR Steinike - US Patent 5,812,066, 1998 - Google Patents  
 ... control signal generated by a user-operated remote **control unit**, the signal ... metal housing substantially surrounds the pro-cessor for **shielding** the dipole arms ...  
 Cited by 1 - Related articles - Web Search - All 2 versions

**Antenna tuning control system**

ND Terk, JA Lofgren, WR Steinike - US Patent 6,016,108, 2000 - Google Patents  
 ... for sensing a wireless control signal generated by a remote **control unit** and (b ... metal housing substantially surrounds the pro-cessor for **shielding** the dipole ...  
 Related articles - Web Search - All 2 versions

... a complete computer system including a sub-printed wiring board attached to an **inner** surface of the ...

K Tsukada, N Nakamura, M Nimura, H Suemori, T ... - US Patent 5,710,693, 1998 - Google Patents

... HAVING A FLAT, CARD-LIKE CASING ENCLOSING COMPONENTS FOR A COMPLETE COMPUTER SYSTEM  
INCLUDING A SUB- PRINTED WIRING BOARD ATTACHED TO AN INNER SURFACE OF THE ...  
Cited by 7 - Related articles - Web Search - All 2 versions

#### Mounting system for current mode coupler

WJ Rudy Jr, HR Shaffer, DE Stahl - US Patent 5,435,512, 1995 - Google Patents  
... control unit, with the control unit providing electrical ... Electromagnetic shielding by using metallic plating on the housing provides EMI/RFI protection. ...  
Cited by 3 - Related articles - Web Search - All 2 versions

#### PUSHBUTTON CHANNEL SELECTING AND VOLTAGE DIVIDER PRESETTING UNIT

US Patent 3,522,542, 1970 - Google Patents  
... ETAL 3,522,542 PUSHBUTTON CHANNEL SELECTING AND VOLTAGE EMI j e ... so that they can act on the inner "th /ald ... for a switching unit of a remote control unit; FIG ...  
Cited by 1 - Related articles - Web Search - All 2 versions

#### System and methods for electronic control of an accumulator fuel system

SA Thompson, J Daiker, JA Stavnheim, W Meyer, G ... - US Patent 5,678,521, 1997 - Google Patents  
Page 1. US005678521A United States Patent [ij] Patent Number: 5,678,521  
[45] Date of Patent: Oct. 21, 1997 Thompson et al. [54] ...  
Cited by 14 - Related articles - Web Search - All 4 versions

#### [PDF] ► Optical Closed-Loop Propulsion Control System Development

GL Poppel, Lewis Research Center - 1998 - ntrs.nasa.gov  
... for the F404 ECU (electrical control unit) to be ... technology will provide immunity to EMI (electromagnetic interference ... micron core fiber optic pins per MIL-T ...  
View as HTML - Web Search - Library Search - All 3 versions

#### Paul Cook: Pioneer in Heat-Shrinkable Insulation

EIM Exclusive - IEEE Electrical Insulation Magazine, 1989 - ieeexplore.ieee.org  
... many new products based on variations of this core technology—for instance, dual-wall tubings that create a moisture-proof seal, shielded molded parts that ...  
Web Search

#### Electronic device having connector with rows of terminals divided by ribs and ground or power

K Tsukada, N Nakamura, M Nimura, H Suemori, T ... - US Patent 5,481,432, 1996 - Google Patents  
Page 1. US005481432A United States Patent Tsukada et al. [ij] Patent Number:  
[45] Date of Patent: 5,481,432 Jan. 2, 1996 [54] ELECTRONIC ...  
Cited by 12 - Related articles - Web Search - All 4 versions

#### Electric arc power collection for high-speed trains

D Klapas, R Hackam, FA Beanson - Proceedings of the IEEE, 1976 - ieeexplore.ieee.org  
... The available power on the vehicle may be doubled by adding an iron shield under the ... ductive coupling is a variation of the "open core" transformer [20]. ...  
Cited by 1 - Related articles - Web Search - All 2 versions

#### Electronic device having a flat, card-like casing enclosing components for a complete computer ...

K Tsukada, N Nakamura, M Nimura, H Suemori, T ... - US Patent 5,502,617, 1996 - Google Patents  
Page 1. US005502617A United States Patent Tsukada et al. [ij] Patent Number:  
5,502,617 [45] Date of Patent: \*Mar. 26, 1996 [54] ELECTRONIC ...  
Cited by 3 - Related articles - Web Search - All 2 versions

## **EMP Design and Test Guidelines for Systems in Mobile Shelters**

SC Sanders - 1993 - Storming Media

... 34 5.5 **Shield Density Currents** ..... 34 ...

Web Search - Library Search - All 2 versions

## **Display apparatus providing a uniform temperature distribution over the display unit**

T Shirnada, K Kurematsu, H Takabayashi, S Yabu, M ... - 1996 - freepatentsonline.com

... diagram of another lighting device power supply **control unit** ... a structure of an electromagnetic **shielding** plate disposed on an **inner** surface of a rear ...

Web Search - All 3 versions

## **Common receive module for a programmable digital radio**

WC Phillips, MV Pascale, RW Milnarik, KM Schmidt, ... - US Patent 5,859,878, 1999 - Google Patents

... The digital signals are supplied to a programmable signal **processing unit** which is configured, according to the selected radio application and, if present, the ...

Cited by 5 - Related articles - Web Search - All 7 versions

## **Fluorescent lamp ballast having a resonant output stage using a split resonating inductor**

MS Moisin - US Patent 5,982,111, 1999 - Google Patents

... or Firm—Knobbe, Martens, Olson & Bear, LLP [57] ABSTRACT An improved ballast circuit for use with a compact fluores- cent lamp includes an **EMI filter**, a ...

Cited by 1 - Related articles - Web Search - All 2 versions

Key authors: **S Smith - K Tsukada - W Rudy - S Thompson - N Nakamura**

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A Mayer, A Wool, E Ziskind - 2000 IEEE Symposium on Security and Privacy, 2000. S&P 2000. ..., 2000 - ieeexplore.ieee.org

... providing the rest. Behind the DMZ is the **internal firewall**, which guards the corporation's intranet. This **firewall** has three ...

Cited by 120 - Related articles - Web Search - BL Direct - All 14 versions

**Network firewalls- ► psu.edu [PDF]**

SM Bellovin, WR Cheswick - IEEE Communications Magazine, 1994 - ieeexplore.ieee.org

... the outside gateway has to other **internal hosts**. Either filter, or for that matter the gateway itself, maybe omit- ted; the details will vary from **firewall** to **firewall**. ...

Cited by 113 - Related articles - Web Search - BL Direct - All 9 versions

**[PDF] ► The inevitability of failure: The flawed assumption of security in modern computing environments**

PA Loscocco, SD Smalley, PA Muckelbauer, RC Taylor ... - Proceedings of the 21st National Information Systems ..., 1998 - cs.unomaha.edu

... Modern **firewall** architectures typically involve the use of bastion hosts; in a ... to outsiders, and an inter- nal bastion host on the **internal** network, which is ...

Cited by 191 - Related articles - View as HTML - Web Search - All 69 versions

**Distributed firewalls- ► kernel.org [PDF]**

SM Bellovin - Journal of Login, 1999 - usenix.org

... external access. Just as file permissions enforce an **internal** security policy, a **firewall** can enforce an **external** security policy. ...

Cited by 127 - Related articles - Web Search - All 42 versions

**Designing an academic firewall: policy, practice, and experience with SURF- ► ncstrl.org [PDF]**

M Greenwald, SK Singhal, JR Stone, DR Cheriton - Network and Distributed System Security, 1996., Proceedings ..., 1996 - ieeexplore.ieee.org

... The proxies run on a bastion host, an **internal** host config- ured specifically for the purpose. Unlike many traditional designs, our **firewall** permits multiple ...

Cited by 39 - Related articles - Web Search - Library Search - All 26 versions

**[PDF] ► Evaluating and improving firewalls for IP-telephony environments**

U Roedig, R Ackermann, R Steinmetz... - The 1st IP Telephony Workshop, Berlin, 2000 - securitytechnet.com

... As we have shown, a commonly used **internal firewall** architecture as shown in Figure 2 is not very useful for IP-Telephony scenarios. ...

Cited by 14 - Related articles - View as HTML - Web Search - All 8 versions

**Security in mobile agent system: problems and approaches- ► essex.ac.uk [PDF]**

Y Kun, G Xin, L Dayou - ACM SIGOPS Operating Systems Review, 2000 - portal.acm.org

... **Firewall** would hopefully not hinder **internal** people trying to get their job done, yet would restrict external malcontents. While ...

Cited by 23 - Related articles - Web Search - BL Direct - All 4 versions

## Multilayer **firewall** system

DM Nessett, WP Sherer - US Patent 5,968,176, 1999 - Google Patents  
... This approach has value, but introduces bottlenecks to the corporation intranet.  
That is **internal firewalls** adversely affect performance within the company. ...

Cited by 50 - Related articles - Web Search - All 7 versions

## [PDF] ► A distributed **firewall** for multimedia applications

U Roedig, R Ackermann, C Rensing, R Steinmetz - Proceedings of the Workshop "Sicherheit in Mediendaten, 2000 - cs.ucc.ie  
... To fulfil the first criterion we specify requirements for the **internal firewall** communication subsystem as follows: - The **firewall** components, eg filters or ...  
Cited by 10 - Related articles - View as HTML - Web Search - All 9 versions

## Firewalls for security in wireless networks

U Murthy, O Bukhres, W Winn, E Vanderzel, C Inc, ... - System Sciences, 1998., Proceedings of the Thirty-First ..., 1998 - ieeexplore.ieee.org  
... perhaps the most significant security benefits of a **Firewall** [Ranum92 ... The bastion host provides the link between the screening router and **internal** router and ...  
Cited by 19 - Related articles - Web Search - BL Direct - All 3 versions

## Putting it together a multi-dimensional approach to Internet security

FM Avolio - NetWorker, 1998 - portal.acm.org  
... An organization may deploy additional **internal firewalls** — to protect the accounting department, for example, from the rest of the organization as well as ...  
Cited by 13 - Related articles - Web Search

## Firewall system for protecting network elements connected to a public network

CD Coley, RE Wesinger Jr - US Patent 5,826,014, 1998 - Google Patents  
... The connection 212 between the **internal** network 214 and the **firewall** 210 is preferably the only connection between these two elements. ...  
Cited by 77 - Related articles - Web Search - All 4 versions

## [CITATION] Implementing a Distributed Firewall

SM Bellavini, JM Smith - ACM Conference on Computer and Communications Security..., 2000 - ACM  
Cited by 3 - Related articles - Web Search

## Information security and the Internet

GR Doddrell - Internet research: Electronic networking applications and ..., 1996 - emeraldinsight.com  
... **Internal/ external router Firewall boundary on user site** Figure 5 Best practice **firewall** configuration – combined **internal** and external routers Page 5. ...  
Cited by 14 - Related articles - Web Search - BL Direct - All 7 versions

## [CITATION] Building Your Firewall Rulebase

L Spitzner - Lance's Security Papers, January, 2000  
Cited by 8 - Related articles - Web Search

## Key management for network communication

RH Levesque, JA Kraemer, AP Nadkarni - US Patent 5,825,891, 1998 - Google Patents  
... A "u \* ji \*\* \* ie 11 \* 1=0 keys to other computers, sends the encrypted packet to **internal firewall** computer 158 in accordance with the tunnel database. ...  
Cited by 10 - Related articles - Web Search - All 4 versions

## Corporate system security: towards an integrated management approach- ► bUBL.ac.uk

HN Higgins - Information Management & Computer Security, 1999 - emeraldinsight.com

... Administrators should manage users' privileges to prevent **internal** users from accessing ...  
limit the chance of users who sneak in through holes in the **firewall**. ...

Cited by 23 - Related articles - Web Search - All 8 versions

### Transferring encrypted packets over a public network

AJ Kirby, JA Kraemer, AP Nadkarni - US Patent 5,898,784, 1999 - Google Patents  
... 5,898,784 5 6 If the header 82 is not a swPe header, then the security sends the  
encrypted packet to **internal firewall** computer 158 network driver issues a ...

Cited by 11 - Related articles - Web Search - All 4 versions

### [PDF] ► Management of network security applications

PC Hyland, R Sandhu - Proceedings of the 21st NIST-NCSC National Information ...., 1998 - csrc.nist.gov  
... **Internal Firewall External Firewall** Organizational Boundary NMS External Firewall ...

SNMP Agent Figure 3. Management of **Internal** vs. External **Firewalls** Page 10. ...

Cited by 10 - Related articles - View as HTML - Web Search - All 9 versions

### X through the **firewall**, and other application relays

GW Treese, A Wolman - Proceedings of the USENIX Summer 1993 Technical Conference ..., 1993 -  
portal.acm.org

... Screening Router External Network **Internal Network Internal Hosts Other Internal Networks X'** s \$k@{de}873qD ~ y Xug \$X" k@dO" q DhjisflC s \$k ( 1 isf Page 5. ...

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